

CLAIMS

What is claimed is:

- Sub A1
1. A method, comprising:
 - 2 selecting a connection source and a connection destination from a
 - 3 graphical user interface that displays a topology of a network;
 - 4 executing a routing algorithm to determine a path through the network;
 - 5 and
 - 6 provisioning the connection within the network that corresponds to the
 - 7 path.
 - 1 2. The method of claim 1 further comprising executing the routing algorithm
 - 2 at a node within the network.
 - 1 3. The method of claim 2 further comprising sending topology information
 - 2 from a first node to a second node within the network.
 - 1 4. The method of claim 2 further comprising sending bandwidth resource
 - 2 information from a first node to a second node within the network.
 - 1 5. The method of claim 2 further comprising sending Quality of Service
 - 2 (QoS) information from a first node to a second node within the network.
 - 1 6. The method of claim 1 further comprising executing the routing algorithm
 - 2 at a network control management system coupled to the network.

3 7. The method of claim 1 wherein the graphical user interface allows the user
4 to select a bandwidth for the connection.

1 8. The method of claim 7 wherein the graphical user interface allows the user
2 to select Quality of Service (QoS) parameters for the connection.

1 9. The method of claim 8 wherein the QoS parameter further comprises end-
2 to-end transit delay for the connection.

1 10. The method of claim 8 wherein the QoS parameter further comprises jitter.

1 11. A machine readable medium having instructions stored thereon which
2 that when executed by one or more processors cause the processor to:
3 select a connection source and a connection destination from a graphical
4 user interface that displays a topology of a network;
5 execute a routing algorithm to determine a path through the network; and
6 provision the connection within the network that corresponds to the path.

1 12. The machine readable medium of claim 11 further comprising instructions
2 which when executed cause the processor to execute the routing algorithm at a
3 node within the network.

1 13. The machine readable medium of claim 12 further comprising instructions
2 which when executed cause the processor to send topology information from a
3 first node to a second node within the network.

1 14. The machine readable medium of claim 12 further comprising instructions
2 which when executed cause the processor to send bandwidth resource
3 information from a first node to a second node within the network.

1 15. The machine readable medium of claim 12 further comprising instructions
2 which when executed cause the processor to send Quality of Service (Qos)
3 information from a first node to a second node within the network.

1 16. The machine readable medium of claim 11 further comprising instructions
2 which when executed cause the processor to execute the routing algorithm at a
3 network control management system coupled to the network.

1 17. The machine readable medium of claim 11 wherein the graphical user
2 interface allows the user to select a bandwidth for the connection.

1 18. The machine readable medium of claim 17 wherein the graphical user
2 interface allows the user to select Quality of Service (QoS) parameters for the
3 connection.

1 19. The machine readable medium of claim 18 wherein the QOS parameter
2 further comprises end-to-end transit delay for the connection.

3 20. The machine readable medium of claim 18 wherein the QoS parameter
4 further comprises jitter.